

A PECULIAR NUMBER

SOME RATHER QUEER FACTS ABOUT THE MAGIC SEVEN.

Remarkable Demonstrations of the Possibility of This Mystic Number and Its Mathematical Wonders Have Been Made by the Present Number.

Now the figure 7 has been turned and intertwined in the fabric of superstition, mysticism and religion. It has even been a source of wonderment even to the deliver into the fact. From the "Come, my seven-pleated" of the darky crap shooter to the "seventh daughter of a seventh daughter of a seventh daughter" claims of the seers and on to the New Testament analysis, showing the four gospels to have been written on an elaborated scale of 7's, the student even of these students finds himself nonplused.

"Oh, he's crazy!" is the final conclusion with which the layman who looks on dismisses the man and the subject. But that the figure 7 is a peculiar group of integers cannot be denied by any one who will look a few mathematical facts in the face.

One of the most remarkable demonstrations of the potentiality of the figure 7 is found in that old mooted question of the "squaring of the circle." For all practical purposes in the work shop the area of the circular plane is found by multiplying the diameter of the circle by the figure 7.1416. But there are those who question the accuracy of this fractional multiplier and who assert that the relation of the diameter to the circle is exactly the compound number 81-7 and that the area of the circle is found by multiplying the diameter by this group of figures.

This makes the decimal group of six places .142857 plus, and it is this decimal group of six places which responds in such striking repetition to any multiplier and particularly to the figure 7 in its multiples. The fact is demonstrated in a moment that to multiply this group by the figure 2 the product is .285714, a product which retains every numeral in the first group, only that all are transposed in their order. Multiply this same group by 3 and the product is .428571, a collection of the same numerals that are in the first decimal group, but redistributed. This phenomenon is maintained by multiplications of 4, 5 and 6, invariably producing the numerals .142857, but in a mixed order.

At the application of 7 as the multiplier, however, the product undergoes a startling transformation. Seven times the decimal .142857 the product becomes .999999.

Yet passing the number 7, the figure 8 as a multiplier gives the product .114285. Here is the first disappearance of the original figures. The fact that the product is in seven figures instead of a product of six places. But by taking this seventh place figure 5 and adding it to the first place figure 8 this multiplication and addition result in the original six decimal places .142857. Further than this, making the multiplier a 9, the product becomes .128571, and when the left hand figure 1 is added to the right hand figure 3 the product and sum are the figure .142857, which are identical in arrangement with the product obtained by multiplying the original .142857 by the figure 2. Multiplying by 10, the product is .142857, and the addition of the seventh place figure 1 to the right hand figure 3, gives .142857, the product obtained from using the multiplier 3. In just this order the other multiplied products and additions arrange themselves, the multiple 11 giving the 4 product, 12 giving the 5 product, 13 giving the 6 product, up to the multiple 14, which also is a multiple of the original 7.

Here again the product and sum produce a string of six 9's, as follows: Multiplying .142857 by 14, the product is .999998, and the addition of the seventh place figure 1 to the right hand figure 3 gives .999999, which is the 7 product. Further along with the multiples of 7 the product and sum of the 21 multiplier become six 9's, with the same result of six 9's until the multiple 74 is used. Here for the first time in these multiplications by the 7 multiple the former product of seven decimal places becomes eight places .10909099. When adding the two left hand figures to the two final figures in the group, the .999999 of the original 7 product appears.

Taking the 7 multiple 98 as the largest number occupying two places, only the product of the seven 14's are the same six 9's. But there is an extraordinary reversion in multiplying the original decimal group by 99. Recalling this group as .142857, the multiplication and addition are shown:

.142857
99

1285713
1285713

142857

Out of this application the original .142857 has been multiplied by 99 and all the six places decimal of the common fraction 1-71.

But still pursuing decimals of this fraction you can't lose the combination. Go on with the reduction of the fraction into six more places, and you will have .142857142857 plus.

And if you should have any further multiplication of six places more, and you will have the aggregate .142857142857 .142857 plus and then some more.

But wherever you may choose to stop in these six place decimal groups and begin to multiply by other figures you may count upon never losing a single

1, 4, 2, 8, 5, 7 until your multiplier becomes one of the multiples of 7; then you will have 9's to burn.

Why? I don't know. Once in calling the attention of a student of the occult to these arithmetical phenomena he asked me if I knew why. I told him I didn't, and he leaned over solemnly and said:

"Because 9 is the perfect number!"

I expressed some more questioning in a look, and, taking up a pencil, he showed me that the sum of these decimal numbers was 27 and that the sum of the two 10's and seven units was 9, the perfect number!

"But how about that 7?" I asked, and he shook his head. Lee Vington in San Francisco Chronicle.

PIGS AS DRAFT ANIMALS.

A Sow That Could Retrieve Birds.

Four-in-hand of Pigs.

In many countries, even in Scotland, the pig has served the purpose of a beast of draft and has actually been harnessed to the plow in company with cows and horses. In Scotland also early in the last century pigs were sometimes made to serve as chargers and proved most docile mounts.

The homing instinct is strongly developed in the pig. Instances not infrequently occur of pigs finding their way back to farms whence they have been conveyed. There is a record of two pigs homing nine miles and crossing the Thames to boot to their old farm, whence they had been driven to Reading market and bought by a local gentleman on the previous day. At one point on their homeward journey where two roads met the twain were observed "putting their noses together as if in deep consultation."

About 1815 a London gentleman created a sensation by driving a four-in-hand of pigs through the streets, and thirty years later an old farmer caused amusement to a great crowd in the market place at St. Albans by entering it in a chaise drawn by four trotting hogs. After two or three turns round the market he drove to the Woodstock yard, where his curious steeds were unharnessed and led away to be regaled with a trough of beans and wash.

There have also been sporting pigs. An old account of a black sow which Richard Tooner, one of the royal keepers in the New Forest, broke to find game and to bask and stand says: "Within a fortnight she would find and point partridges or rabbits, and her training was much forwarded by the abundance of both. She daily improved and in a few weeks would retrieve birds that had run as well as the best pointer—nay, her nose was superior to the best pointer."

According to Linnaeus, "the hog is more nice in the selection of his vegetable diet than any of our other domesticated herbivorous animals." Thus in one respect the pig may be said to be an epicure. Linnaeus states that the animal will eat only seven-two plants, as against the goat's 449, the sheep's 387, the cow's 276 and the horse's 262.

Ways of the Moors.

Of the elevating influence of women in the American sense Morocco knows nothing, according to Budget Meakin, author of "Life in Morocco." There they are, in effect, so many goods and chattels. That a woman should be fat and comely is the highest thought a Moor has on the position of women. If a girl is to be married and is thought to be too thin, she is put through a course of "fattening," just as it is with a turkey meant for the Christmas market. "This consists of swallowing after each full meal a few small sausage shaped boluses of flour, honey and butter, flavored with aniseed or something similar. A few months of this treatment give a marvelous rotundity to the figure, thus greatly increasing her charms to the native eye."

As a people the Moors are already well inclined to anything that glides life. The same writer says: "Nothing delights them more, as a means of agreeably spending an hour or two, than squatting on their heels in the streets or on some door stoop gazing at the passersby, exchanging compliments with their acquaintances. Native swells consequently promenade with a piece of felt under their arms, on which to sit when they wish, in addition to its doing duty as a carpet for prayer. The most public places and usually the cool of the afternoon are preferred for this pastime."

Petrified Beetles.

One of the several geological formations of England is that known to those who make such matters a study as the "lias." This stratum is variously known as "the beetle rocks," "insect stones" and "wing case chalk." Wherever this formation is found exposed, it is encountered by miners, well diggers and others it is found to be formed almost entirely of the petrified wing cases of a kind of beetle peculiar to Britain in the geological age in which that particular stratum was formed. The lime in the composition which makes up the body of the stratum has transformed the original matter of these delicate wing cases into a hard, "insect stone," upon that account some geologists list the formation under the head of "insect limestone." Geologists account for the presence of these countless numbers of insect remains in this way: At one time the whole stratum was the bottom of an immense lake. For countless ages the beetles died on its surface, and their shells sank to the bottom. As the lake dried up, and the chemical action and the heat of the sun transformed the whole into a stratum of stone and preserved it to the present day. So we now have the wonderful "insect stones" to ponder over.

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GEORGE SCHERER, PROPRIETOR.

MASTER'S NOTICE OF SALE.—In Chancery of New Jersey—Between George H. Lawrence, complainant, and Francis W. Lawrence et al., defendants. On bill, etc.

By virtue of a decree for sale made in the above stated cause, bearing date the twelfth day of February, 1905, I shall expose for sale at public vendue, and to the highest bidder, on Tuesday, the twenty-seventh day of March, nineteen hundred and six, at 2:30 o'clock in the afternoon of that day, on the premises hereinafter described, all that certain tract or parcel of land and premises, lying and being in the town of Bloomfield, in the County of Essex and State of New Jersey:

Beginning at a point in the easterly line of Lawrence street distant thereon thirty feet and three one-hundredths of a foot northwesterly from the intersection of the same with the easterly line of the right of way of the Watchung Branch of the Erie Railroad; from thence running (1) along the northerly line of said right of way south eighty-two degrees twenty-four minutes east two hundred and forty-four feet and twenty-five one-hundredths of a foot to and now or formerly of H. B. Wiggins; thence (2) along said line north nineteen degrees fifty-three minutes east four hundred and thirty-six feet and sixty-five one-hundredths of a foot; thence (3) north eighty-two degrees twenty-three minutes west two hundred and nine feet and twenty-one hundredths of a foot to the rear line of lots fronting on Lawrence street; thence (4) along the same south ten degrees five minutes west three hundred and seventy-five feet; thence (5) along the line of beginning including also the inch-wide rights of dower of the defendantess Beatrice E. Lawrence, Lucy M. Lawrence, Marguerite Agnes Lawrence, Mary S. Lawrence, Irene Lawrence and Mary E. Lawrence, collectively, together with all and singular the hereditaments and appurtenances to the said premises belonging or in any wise appertaining.

Dated Newark, N. J., February 20, 1905.
FREDERICK T. GULL, Special Master in Chancery.

GULL, LUM & TAMELIN, Solicitors.

ESSEX COUNTY ORPHANS' COURT.—In the matter of the estate of William Raab, deceased. Order to show cause.

GEORGE FETTERSON, executor of the last will and testament of William Raab, deceased, having filed under a true account of the personal estate and debts of said intestate whereby it appears that the personal estate of the said deceased is insufficient to pay his debts and requesting the aid of the Court in the premises.

It is upon this twenty-second day of January, 1905, ordered that all persons interested in the lands, tenements, hereditaments and real estate of the said William Raab, deceased, appear before this court at the court house of Essex County, Newark, New Jersey, on April 10, at ten o'clock in the forenoon, to show cause why so much of the lands, tenements, hereditaments and real estate of the said William Raab, deceased, should not be sold as will be sufficient to pay his debts.

Witness, Jay Tun York, J., Judge of said court, this 22d day of January, 1905.

G. E. RUSSELL, Surrogate. JAY TUN YORK, J.

ESTATE OF ROSETTA BROMLEY, deceased.

Pursuant to the order of GEORGE E. RUSSELL, Surrogate of the County of Essex, this day made, on the application of the undersigned executor of said deceased, notice is hereby given to the creditors of said deceased to exhibit to the subscriber under oath or affirmation their claims and demands against the estate of said deceased, within nine months from this date, or they will be forever barred from prosecuting or recovering the same against the subscriber.

EDWIN WESTLAKE, Present claims to EDWARD C. OAKES, Prudential Building, Newark, N. J., Executor for Executor.

ESTATE OF JAMES G. BROWN, deceased.

Pursuant to the order of GEORGE E. RUSSELL, Surrogate of the County of Essex, this day made, on the application of the undersigned executor of said deceased, notice is hereby given to the creditors of said deceased to exhibit to the subscriber under oath or affirmation their claims and demands against the estate of said deceased, within nine months from this date, or they will be forever barred from prosecuting or recovering the same against the subscriber.

SARAH S. BROWN, Woodruff & Stevens, Executors.

ESTATE OF MICHAEL CUMMINGS, deceased.

Pursuant to the order of GEORGE E. RUSSELL, Surrogate of the County of Essex, this day made, on the application of the undersigned executor of said deceased, notice is hereby given to the creditors of said deceased to exhibit to the subscribers under oath or affirmation their claims and demands against the estate of said deceased, within nine months from this date, or they will be forever barred from prosecuting or recovering the same against the subscribers.

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R. T. CADMUS, 595 Bloomfield Avenue. BOTH PHONES.

ESTATE OF JOSEPH WEAT, DECEASED. Pursuant to the order of GEORGE E. RUSSELL, Surrogate of the County of Essex, this day made, on the application of the undersigned administrator of said deceased, notice is hereby given to the creditors of said deceased to exhibit to the subscribers under oath or affirmation their claims and demands against the estate of said deceased, within nine months from this date, or they will be forever barred from prosecuting or recovering the same against the subscriber.

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